

(11)

Detail specification of 5W walkie talkie set with Ni-Mh batteries 2200 mAH VH3 band 136 - 174 Mhz full band along with Rapid battery charger suitable to charge 2200 mAH Ni-NH Battery

GENERAL

1. Frequency Range : 136-174 MHz full band.
2. No of channels : 16 channels or more channels 1 & 3 should be programmed to cover end frequencies and channels 2 for the mid frequency of the quoted frequency spread. Remaining channels should also be programmed to cover the quoted frequency spread.
3. Channel spacing : 12.5 KHz
4. Frequency spread : 5 MHz or more without degradation in Tx/Rx specification.
5. Frequency stability : 5 PPM or better.
6. Type of emission : 11KOF3
7. Type of operation : Simplex, press to talk with built in condenser mic and speaker.
8. Type of antenna : Helical antennas suitable for the frequency spot specified in supply order.
9. Speaker Impedance : To be specified by the firms both at internal and external speaker point.
10. Output Impedance/Termination : 50 Ohms and the aerial terminal should have BNC female socket or appropriate adapter should be provided with the sets for DCPW for testing/evaluation.
11. Protection :
 i) Reverse polarity protection should be provided.
 ii) The final transistor should be protected against high VSWR.
12. Weight : 600 G Max with battery.
13. Power source : 2200 ~~2000~~ mAH 7.2V/7.4V, Ni-Mh battery.
14. Voltage : Test voltage to be indicated by the tenderers.

Transmitter

1. RF Power output : 1W/5W +/-0.5 dB switch able/programmable.
2. Frequency/Deviation : +/-2.5 KHz Max (For 100% at 1 KHz) for 12.5 KHz channel spacing.
3. Modulation Sensitivity : 1 to 10 mV at 1 KHz at mic. Input for +/-1.5 KHz (for 12.5 KHz channel spacing) standard deviation.
4. Modulation Distortion : Less than 5% KHz channel spacing standard deviation (for 12.5 KHz channel spacing) standard deviation.

d/sy
Syestefele

105

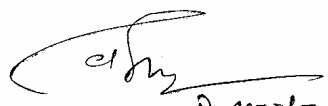
- 5. Modulation Fidelity : +1,-3 dB or 6dB/Octave pre-emphasis
Characteristics from 350 Hz to 2700 Hz with 1 KHz as reference.
- 6. Spurious & Harmonics suppression : Better than 60 dB.
- 7. VSWR : Better than 1.5

Receiver

- 1. Sensitivity : 0.30 micro V for 12 dB SINAD
- 2. Squelch Sensitivity : 0.25 micro V or better at threshold
- 3. Selectivity : Better than 60 dB
- 4. Image Rejection : Better than 65 dB
- 5. Audio output : 250mW/50mW with less than 5% distortion at 1KHz
reference measured at specified AF output.
- 6. Audio Response : +1,-3 dB of 6 dB/Octave de-emphasis characteristics
from 350 Hz to 2700 Hz with 1 KHz as reference.

Configuration of VH3

- Simple Press to talk
- Protection against high VSWR
- CTCSS
- Low battery alert
- Capable of VOX for hands-free operation
- PTT ID Encode
- CTCSS/DCS
- Busy channel lockout
- Channel scanning with call quieting facility
- Any one of 2tone/5tone/DTMF signaling
- Selective call decode
- Any one of 2tone/5tone/DTMF/Digital signaling
- Capable of being killed/unkilled


Dy. CST/tele